

ABSTRACT

An optical and electrical compound connector, which enables to transmit and to receive light signals and electric signals of a plurality of systems and to transmit and to receive these signals with respect to other electric wiring board, is achieved with downsizing and easing connection work thereof. The optical and electrical compound connector 1 is comprised of a sheet-shaped base board 2 and a socket 3 into which this base board 2 is inserted. The sheet-shaped base board 2 is a flexible base board capable of transmission and reception of the light and electric signals, in which a light guide 21 and conductor patterns 22 extended in an insertion direction 10, are formed. The socket 3 performs the transmission and reception of the light and electric signals with the sheet-shaped base board 2 and transmits and receives the signals with an electric wiring board 8. The socket 3 comprises a connector main body 4 to which the sheet-shaped base board 2 is connected, a light-sensitive element and/or a light emitting element 5 which performs the transmission and/or reception of the light signals with the light guide 21, and contacts 6 which performs the transmission and/or reception of the electric signals with the conductor patterns 22. The connector main body 4 has a first to third walls 41 to 43 enclosing the sheet-shaped base board 2 from both sides in a thickness direction and from a front end 11 side, and the light-sensitive element and/or the light emitting element 5 and the contacts 6 are disposed on any one of these walls.